

specification, indicating deleted and added sections. No new matter has been added.

IN THE CLAIMS:

Please cancel original claims 1-15 and revised claims 1-14 (filed in the underlying PCT application) without prejudice.

Please add the following new claims:

16. (New) A method of verifying access authorization for voice telephony for a fixed network line or a mobile telephone line, comprising:

providing a first voice signal of a first subscriber placing a telephone call;

analyzing the first voice signal via a voice recognition algorithm when one of (a) before a communication connection between the first subscriber and a second subscriber is established and (b) after the communication connection between the first subscriber and the second subscriber is established, and if the analyzing begins after the communication connection between the first subscriber and the second subscriber is established then the first voice signal and a second voice signal of the second subscriber continue to be relayed;

comparing the first voice signal with a voice reference data record to determine an identity of the first subscriber;

determining if the first voice signal is in the voice reference data record and if the first voice signal is not in the voice reference data record then at least one communication effect occurs, the at least one communication effect including not establishing the communication connection, automatically interrupting the communication connection and generating an alarm in the communication connection;

recording the first voice signal before and after a communication connection to the second subscriber is established;

assigning the voice reference data record to the fixed network line or the mobile telephone line; and

recording a voice sample of the first subscriber and the second subscriber at regular time intervals during the communication connection and checking the first and second voice signals with the voice reference data record.

17. (New) The method of claim 16, wherein the voice reference data record contains reference voice samples corresponding to at least one specific spoken word, and the voice recognition algorithm analyzes a recorded voice signal with the reference voice samples for a match within a determined tolerance range.

18. (New) The method of claim 16, wherein the voice reference data record corresponds to a reference speech pattern independent of semantic content and characteristic of a person, and the voice recognition algorithm creates a corresponding speech pattern from the recorded voice signal by statistically analyzing the recorded voice signal, the corresponding speech pattern being compared with the reference speech pattern.

19. (New) The method of claim 18, wherein the reference speech pattern is characteristic of a specific frequency distribution of spoken language by the person.

20. (New) The method of claim 16, wherein the reference data record is assigned to a PBX line of a private branch exchange.

21. (New) The method of claim 16, wherein the recorded voice signal is recorded during a predetermined time interval after the initiation of the communication connection, and the recording is terminated at a conclusion of the communication connection.

22. (New) The method of claim 16, wherein the recorded voice signal is stored in an intermediate memory, and further comprising erasing the recorded voice signal stored in the intermediate memory if the recorded voice signal is determined as matched with the reference data record, and continuing to store the recorded voice

signal if the recorded voice signal is determined as not-matched with the reference data record.

23. (New) The method of claim 16, wherein the method is actuated only at at least one of a predetermined time of day, a predetermined time of month, and a predetermined call destination, and the communication connection cannot be established during at least one of a time outside the predetermined time of day, a time outside of the predetermined time of month, and a call destination outside of the predetermined call destination.

24. (New) The method of claim 16, further comprising assigning a predetermined authorization code to the fixed network line or the mobile telephone line and if the first subscriber enters the predetermined authorization code before the communication connection is established then the method is not actuated, the first subscriber entering the predetermined authorization code by at least one of an acoustic signal and via a key pad.

25. (New) The method of claim 16, further comprising recording an amount of an attempt of unauthorized access of the fixed network line or the mobile telephone line and blocking the access of the fixed network line or the mobile telephone line if the amount of the attempt of unauthorized access is equal to or larger than a predetermined maximum attempt value within a predetermined time interval.

26. (New) A communication network comprising:

- a calling line and a called line, the calling line and the called line being at least one of a fixed network line and a mobile telephony line;

- a technical means for establishing a communication connection between the calling line and the called line;

- an accessing means for accessing a data line via which a first voice signal is at least partially transmitted between the calling line and the called line, the accessing means being configured to record the first voice signal transmitted by the calling line;

a memory in which a reference data record is stored, the reference data record containing a reference voice sample of a person having access authorization to the calling line;

a control unit having a voice recognition unit configured to access the memory for the stored reference data record, analyze the recorded first voice signal using voice recognition algorithms, and determine if the first voice signal belongs to the person having access authorization to the calling line by comparing the recorded first voice signal with the stored reference data record, the control unit configured to initiate production of an interrupt signal to interrupt the communication connection if the voice recognition unit determines that the first voice signal does not belong to the person having access authorization to the calling line;

if the voice recognition unit determines that the first voice signal does belong to the person having access authorization to the calling line then the accessing means records a voice sample at regular time intervals during the entire communication connection, the voice recognition unit determining whether the voice sample belongs to a person having access authorization to at least one of the calling line and the called line.

27. (New) The communication network of claim 26, wherein the control unit and the memory are arranged within one of a telephone system and a private branch exchange, and the stored reference data record corresponds to at least one of a reference voice sample and a reference speech pattern of the person having access authorization to at least one of the calling line and the called line.

28. (New) The communication network of claim 26, further comprising an exchange, the control unit and the memory being assigned to the exchange, the reference data record of the calling line is assigned to the exchange and stored in the memory, and the control unit causes the exchange to do at least one of generate a signal interrupting the communication connection and generate an alarm if the voice sample cannot be matched with the stored reference data record.

29. (New) The communication network of claim 26, further comprising a Service Control Point (SCP) of an intelligent network, the control unit and the memory being assigned to the Service Control Point, the control unit causing the Service Control Point to do at least one of generate a signal interrupting the communication connection and generate an alarm if the voice sample cannot be matched with the stored reference data record.

30. (New) A mobile terminal for telecommunications, comprising:

an accessing means for accessing a data line via which a voice signal is transmitted in electronic form and for recording the voice signal and an entered signal;

at least one memory in which an at least one reference data record is stored, the at least one reference data record being assigned to a group of persons having an access authorization;

at least one control unit having a voice recognition unit configured to access the at least one memory for the at least one reference data record and to analyze the recorded voice signal via a voice recognition algorithm and to determine the access authorization by comparing the recorded voice signal with the at least one reference data record, the at least one control unit effecting at least one of initiating production of an interrupt signal to interrupt the communication connection and initiating a shut-off of the terminal if the recorded voice signal does not match with the at least one of the at least one reference data record; and

a sampling means for recording voice samples at regular time intervals during the entire communication connection, the at least one control unit determining whether the voice sample belongs to a person of the group of persons having access authorization.

REMARKS

This Preliminary Amendment cancels, without prejudice, original claims 1-15 and the revised claims 1-14 in the underlying PCT Application No. PCT/EP99/06371, and adds new claims 16-30. The new claims conform the claims to U.S. Patent and Trademark Office rules and do not add new matter to the application.

The amendments to the specification and abstract reflected in the substitute specification are to conform the specification and abstract to U.S. Patent and Trademark Office rules, and do not introduce new matter into the application.

The underlying PCT Application No. PCT/EP99/06371 includes an International Search Report, dated December 20, 1999, a copy of which is included. The Search Report includes a list of documents that were considered by the Examiner in the underlying PCT application.

The underlying PCT Application No. PCT/EP99/06371 also includes an International Preliminary Examination Report, dated December 13, 2000, a copy of which is included, including a translation.

Applicants assert that the present invention is new, non-obvious, and useful. Prompt consideration and allowance of the claims are respectfully requested.

Respectfully Submitted,

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